

WHAT IS CLAIMED IS:

1. A communication terminal apparatus comprising:

a storage unit for storing therein a voice signal;

a signal processing unit for stereophonically processing the voice signal stored in said storage unit in such a manner that said voice signal is outputted as a stereophonic sound;

a detecting unit for detecting a peripheral condition of said communication terminal apparatus; and

a control unit for switching as to whether or not the voice signal is stereophonically processed by said signal processing unit in response to a detection result obtained by said detecting unit.

2. A communication terminal apparatus as claimed in claim 1 wherein:

said detecting unit is an optical sensor for sensing illuminance of a peripheral area of said communication terminal apparatus.

3. A communication terminal apparatus as claimed in claim 2 wherein:

said control unit performs control operations in such a manner that when said illuminance is larger than, or equal to a predetermined illuminance value, the voice signal is stereophonically processed by said signal processing unit, whereas when said illuminance is smaller than said predetermined luminance value, the

voice signal is not stereophonically processed by the signal processing unit.

4. A communication terminal apparatus as claimed in claim 1 wherein:

said detecting unit is a touch sensor for sensing as to whether or not the user takes said communication terminal apparatus on his hand.

5. A communication terminal apparatus as claimed in claim 4 wherein:

when the user takes said communication terminal apparatus on his hand, said control unit controls said signal processing unit to stereophonically process the voice signal, whereas when the user does not take said communication terminal apparatus on his hand, said control unit controls said signal processing unit not to stereophonically process the voice signal.

6. A communication terminal apparatus as claimed in claim 1 wherein:

said signal processing unit performs such a process operation that a frequency component contained in the voice signal stored in said storage unit is multiplied by 2, and then, the doubled frequency component is added to said voice signal.

7. A communication terminal apparatus comprising:

a storage unit for storing thereinto a voice signal;

a signal processing unit for stereophonically

processing the voice signal stored in said storage unit; and

a control unit for switching as to whether or not the voice signal is stereophonically processed by said signal processing unit in response to identification data added to said voice signal when a reproducing request of the voice signal stored in said storage unit is inputted.

8. A communication terminal apparatus as claimed in claim 7 wherein:

said identification data corresponds to such a data for indicating that the stereophonic processing operation of said voice signal is prohibited; and when said identification data is added to the voice signal, said control unit controls said signal processing unit not to stereophonically process the voice signal.

9. A communication terminal apparatus comprising:

a storage unit for storing thereinto a voice signal;

a signal processing unit for stereophonically processing the voice signal stored in said storage unit;

a speaker for outputting a reproduced voice signal;

a connecting unit for connecting an earphone; and

a control unit controls said signal

processing unit in such a manner that when the earphone is connected to said connecting unit, the voice signal is stereophonically processed by said signal processing unit, whereas when the earphone is not connected to said connecting unit, the voice signal is not stereophonically processed by said signal processing unit.

10. A communication terminal apparatus as claimed in claim 9 wherein:

said control unit controls the signal processing unit in such a manner that when data for indicating prohibition of the stereophonic processing operation of the voice signal is added to said voice signal, even in such a case that the earphone is connected to said connecting unit, said signal processing unit does not perform the stereophonic processing operation of the voice signal.

11. A reproducing method wherein:

a voice signal is stored;

in such a case that a reproducing instruction of said voice signal is inputted, when an earphone is connected, a stereophonic processing operation of said voice signal is carried out to reproduce the voice signal, whereas when the earphone is not connected, said voice signal is reproduced without executing the stereophonic processing operation of said voice signal.

12. A reproducing method as claimed in claim 11 wherein:

when the earphone is not connected, such a

message that the stereophonic processing operation of said voice signal cannot be carried out is displayed.

13. A reproducing method wherein:

plural sorts of melodies are stored;

one of said plural sorts of melodies is selected as a telephone calling melody which is

reproduced when a telephone call is received;

when a telephone call is received,

illuminance of a peripheral area is detected; and

when said detected illuminance is larger than, or equal to a predetermined illuminance value, said selected telephone calling melody is processed as a stereophonic sound to be reproduced, whereas when said detected illuminance is smaller than said predetermined illuminance value, said selected telephone calling melody is reproduced without executing a stereophonic sound processing operation.

14. A reproducing method wherein:

plural sorts of voice signals are stored;

one of said plural sorts of voice signals is selected as a notification sound;

a reproducing time instant when said notification sound is reproduced is set;

when said reproducing time comes said reproducing time instant, illuminance of a peripheral area is detected; and

when said detected illuminance is larger than, or equal to a predetermined illuminance value,

said selected voice signal is processed as a stereophonic sound to be reproduced, whereas when said detected illuminance is smaller than said predetermined illuminance value, said selected voice signal is reproduced without executing a stereophonic processing operation.

15. A reproducing method as claimed in claim 14 wherein:

when said detected illuminance is larger than, or equal to the predetermined illuminance value, a sound level at which said voice signal is reproduced is made lower than that when said detected illuminance is smaller than the predetermined illuminance value.

16. A communication terminal apparatus in claim 1 wherein:

a voice processed by said signal processing unit is a 3D-voice.

17. A reproducing method as claimed in claim 11 wherein:

the stereophonic processing operation is 3D-reproducing operation.